



## PATENT ABSTRACTS OF JAPAN

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(21) Application number: **09120197**(22) Date of filing: **23.04.1997**(71) Applicant: **TATSUNO CO LTD**(72) Inventor: **TATSUNO HIYOSHI**(54) **HYDROGEN FUEL SUPPLY SYSTEM**

## (57) Abstract:

**PROBLEM TO BE SOLVED:** To prevent drying-up of fossil fuel, increase of carbon dioxide gas, air pollution, and warming of the earth by supplying hydrogen obtained by carrying out electrolysis of water to a hydrogen fuel supplying place, and supplying hydrogen to a hydrogen vehicle.

**SOLUTION:** Electricity generated by a power generator 2 is supplied to an electrolysis device 3, and water is decomposed into hydrogen and oxygen by electricity. Hydrogen to be decomposed is pressurized by a compressor 4, and is supplied to a storage chamber 5. And then, it is stored in a hydrogen storage alloy 6 in the storage chamber 5. Hydrogen storage alloy 6 in which hydrogen is stored is carried to a hydrogen fuel supplying place 10 provided in the vicinity of the city, and is entered into a discharging chamber 11. Hy-

drogen discharged into the discharging chamber 11 is formed as fuel for a hydrogen vehicle 14, and the hydrogen vehicle 14 is traveled by a pump 13. Since fossil fuel is not used in power generation, it is possible to prevent generation of the problem such as drying-up of fossil fuel, increase of carbon dioxide gas, air pollution, and warming of the earth.

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